## IN THE CLAIMS

- (currently amended) A method of screening for candidate therapeutic agents, comprising steps of:
  - i) contacting a test compound with a PDE11A polypeptide,
  - ii) detecting binding of said test compound to said PDE11A polypeptide, and
- iii) identifying the test compound as a candidate therapeutic agent useful in the treatment of a <u>cardiovascular</u> disease <del>selected from the group consisting of disorders of the</del> peripheral and central nervous system, cardiovascular diseases, cancer, liver disease, and centiourinary disease if the test compound binds to said PDE11A polypeptide; and
- iv) determining whether the test compound has an effect on a symptom of the disease in an in vivo assay.
  - 2-3. (canceled)
- (previously presented) The method of claim 1, wherein the step of contacting is in or at the surface of a cell.
  - 5. (previously presented) The method of claim 4, wherein the cell is in vitro.
- (previously presented) The method of claim 1, wherein the step of contacting is in a cell-free system.
- (previously presented) The method of claim 1, wherein the polypeptide is coupled to a detectable label.
- (previously presented) The method of claim 1, wherein the compound is coupled to a
  detectable label.
- (previously presented) The method of claim 1, wherein the test compound displaces a ligand which is first bound to the polypeptide.

- (previously presented) The method of claim 1, wherein the polypeptide is attached to a solid support.
- (previously presented) The method of claim 1, wherein the compound is attached to a solid support.
  - 12-26. (canceled)
  - 27. (new) A method of screening for candidate therapeutic agents, comprising steps of:
    - i) contacting a test compound with a PDE11A polypeptide,
    - ii) detecting binding of said test compound to said PDE11A polypeptide,
- iii) identifying the test compound as a candidate therapeutic agent useful in the treatment of a disease selected from the group consisting of disorders of the peripheral and central nervous system, cancer, liver disease, and genitourinary disease if the test compound binds to said PDE11A polypeptide; and
- iv) determining whether the test compound has an effect on a symptom of the disease in an in vivo assay.
- 28. (new) The method of claim 1, wherein the step of contacting is in or at the surface of a cell.
  - 29. (new) The method of claim 4, wherein the cell is in vitro.
  - 30. (new) The method of claim 1, wherein the step of contacting is in a cell-free system.
- (new) The method of claim 1, wherein the polypeptide is coupled to a detectable label.
- (new) The method of claim 1, wherein the compound is coupled to a detectable

33. (new) The method of claim 1, wherein the test compound displaces a ligand which is
first bound to the polypeptide.